



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/641,352	08/13/2003	Junichi Ishibashi	03482/LH	1190
1933	7590	12/27/2005	EXAMINER	
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			KIM, WESLEY LEO	
			ART UNIT	PAPER NUMBER
			2688	

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental  
Notice of Allowability**

Application No.

10/641,352

Examiner

Wesley L. Kim

Applicant(s)

ISHIBASHI ET AL

Art Unit

2688

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/7/05.
2. ☒ The allowed claim(s) is/are 2-7, 9, 11, 13, 14, 18-23, 25, 27, 29 and 30.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
GEORGE ENG  
SUPERVISORY PATENT EXAMINER

**DETAILED ACTION**  
**Supplemental Notice of Allowance**

The examiner spoke with Douglas Holtz on 12/13/05 regarding the Notice of Allowance for Application 10/641352, which was mailed out 12/1/05. The attorney has noted that the examiner has failed to include claim 23 in the examiners amendment and below is the claim 23, which was left out of the examiners amendment.

Examiners Amendment:

**DRAFT AMENDED CLAIMS**

Claim 1 (Canceled).

Claim 2. (Currently Amended) ~~The A~~ cellular phone ~~according to claim 1,~~  
comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

Art Unit: 2688

second display means for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the second display means comprises a display section surface rotatably disposed in an attaching section in the phone main body; and

wherein the cellular phone further comprises structure means for containing the second display means in the phone main body, when the operation means is attached to the phone main body, and for rotating the display section surface to set the second display means in a position in which the display is possible, when the operation means is detached from the phone main body.

Claim 3. (Currently Amended) The A cellular phone ~~according to claim 1,~~  
comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

Art Unit: 2688

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the second display means comprises:

a projection display section disposed in the phone main body; and

a magnification reflective mirror section which is rotatably disposed in an attaching section in the phone main body so as to be rotatable to a position opposite to the projection display section; and

wherein the cellular phone further comprises structure means for folding and containing the magnification reflective mirror section in the phone main body, when the operation means is attached to the phone main body, and for positioning the magnification reflective mirror section in the position opposite to the projection display section, when the operation means is detached from the phone main body.

Claim 4. (Currently Amended) The A cellular phone according to claim 1,  
comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the second display means comprises:

a display section; and

a direct view type magnification optical section disposed opposite to the display section; and

wherein the cellular phone further comprises structure means for folding and containing the display section and magnification optical section in the phone main body, when the operation means is attached to the phone main body, and for setting a display surface of the display section and a surface of the magnification optical section in positions such that the surfaces are at a predetermined angle with respect to a surface

Art Unit: 2688

of the phone main body and such that display is possible, when the operation means is detached from the phone main body.

Claim 5. (Currently Amended) ~~The~~ A cellular phone ~~according to claim 1,~~  
comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the second display means comprises:

a display section; and

a direct view type magnification optical section disposed opposite to the display section; and

wherein the cellular phone further comprises structure means for containing the magnification optical section in the phone main body, when the operation means is attached to the phone main body, and for setting the magnification optical section in a display state position distant from a display surface of the display section by a predetermined interval, when the operation means is detached from the phone main body.

Claim 6. (Currently Amended) A cellular phone comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means ~~, larger than the first display means,~~ for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;



wherein the phone main body includes a first attaching position at which the operation means is attached onto a surface side of the phone main body, and a second attaching position at which the operation means is attached onto a rear surface side of the phone main body after being detached from the phone main body.

Claim 7. (Previously Presented) The cellular phone according to claim 6, wherein the operation means includes two horizontal cursor arrow direction keys; and wherein the cellular phone further comprises:

means for detecting that the operation means has been attached to the second attaching position;

change processing means for processing a change of a code allocation function of the two horizontal cursor arrow direction keys of the operation means; and

code allocation change means for changing the code allocation function based on a signal of the detection means, when the operation means is attached to the second attaching position.

Claim 8 (Canceled).

Claim 9. (Currently Amended) A cellular phone comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means ~~, larger than the first display means,~~ for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters;

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

attaching/detaching detection means for detecting whether the operation means is attached to the phone main body; and

switch means for switching display driving of the first and second display means based on a signal from the attaching/detaching detection means.

Claim 10 (Canceled).

Claim 11. (Currently Amended) A cellular phone comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means ~~, larger than the first display means,~~ for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters;

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

text conversion means for transferring character data key-inputted in the operation means to the phone main body from the operation means and for subsequently converting the data to text; and

sentence edition recording means for storing a part of inputted data in a temporary memory at a sentence input time and for storing all inputted sentences in an all sentence memory,

wherein the first display means displays the data of the temporary memory, and the second display means simultaneously displays the data of the all sentence memory.

Claim 12 (Canceled).

Art Unit: 2688

Claim 13. (Currently Amended) A cellular phone comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means ~~, larger than the first display means,~~ for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the operation means comprises:

capacitance use input means for performing an instruction operation for the second display means on a rear surface side of the operation means with respect to an operation surface of the operation means; and

conversion means for converting the a signal from the capacitance use input means into a signal to be transferred; and

wherein the phone main body receives the signal to be transferred converted by the conversion means via the transmission/reception means and comprises instruction

Art Unit: 2688

operation processing means for performing an instruction operation process of the second display means based on the received signal.

Claim 14. (Currently Amended) A cellular phone comprising:

voice communication means for transmitting and receiving data concerning voice communication and carrying out voice communication;

information communication means for transmitting and receiving data concerning information communication, which includes an image, and carrying out information communication, which is different from voice communication;

first display means disposed in a phone main body, for displaying the data concerning voice communication;

second display means, ~~larger than the first display means~~, for displaying details of the data concerning information communication;

operation means, removably attached to the phone main body, for inputting instructions including characters; and

transmission/reception means for transmitting/receiving information between the operation means and the phone main body;

wherein the operation means comprises:

cross operation key means for performing an instruction operation of the second display means on a rear surface side of the operation means with respect to an operation surface of the operation means; and

Art Unit: 2688

conversion means for converting a signal outputted from the cross operation key means into a signal to be transferred; and

wherein the phone main body receives the signal to be transferred converted by the conversion means via the transmission/reception means and comprises instruction operation processing means for performing an instruction operation process of the second display means based on the received signal.

Claims 15-17 (Canceled).

Claim 18. (Currently Amended) The A cellular phone ~~according to claim 17,~~ comprising:

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

Art Unit: 2688

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

wherein the second display section comprises a display section surface rotatably disposed in an attaching section in the phone main body; and

wherein the second display section is contained in the phone main body, when the operation key unit is attached to the phone main body, and the display section surface is rotated to set the second display section in a position in which the display is possible, when the operation key unit is detached from the phone main body.

Claim 19. (Currently Amended) ~~The A~~ A cellular phone ~~according to claim 17,~~ comprising:

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which displays details of the information including the image to be displayed;

Art Unit: 2688

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

wherein the second display section comprises:

a projection display section disposed in the phone main body; and

a magnification reflective mirror section which is rotatably disposed in an attaching section in the phone main body so as to be rotatable to a position opposite to the projection display section; and

wherein the magnification reflective mirror section is folded and contained in the phone main body, when the operation key unit is attached to the phone main body, and the the magnification reflective mirror section is positioned in the position opposite to the projection display section, when the operation key unit is detached from the phone main body.

Claim 20. (Currently Amended) ~~The A~~ A cellular phone ~~according to claim 17,~~  
comprising:

a voice communication section which carries out voice communication and communication of call information;



Art Unit: 2688

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

wherein the second display section comprises:

a display section; and

a direct view type magnification optical section disposed opposite to the display section; and

wherein the display section and magnification optical section are folded and contained in the phone main body, when the operation key unit is attached to the phone main body, and a display surface of the display section and a surface of the magnification optical section are set in positions such that the surfaces are at a predetermined angle with respect to a surface of the phone main body and such

Art Unit: 2688

that display is possible, when the operation key unit is detached from the phone main body.

Claim 21. (Currently Amended) ~~The~~ A cellular phone ~~according to claim 17,~~  
comprising:

a voice communication section which carries out voice communication and  
communication of call information;

an information communication section which carries out communication of  
information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the  
call information;

a second display section which displays details of the information including the  
image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone  
main body and which inputs at least one of character information and instruction  
information; and

a transmission/reception section which transmits/receives the at least one  
of character information and instruction information between the operation key unit and  
the phone main body;

wherein the second display section comprises:

a display section; and

a direct view type magnification optical section disposed opposite to the display section; and

wherein the magnification optical section is contained in the phone main body, when the operation key unit is attached to the phone main body, and the magnification optical section is set in a display state position distant from a display surface of the display section by a predetermined interval, when the operation key unit is detached from the phone main body.

Claim 22. (Currently Amended) A cellular phone comprising:

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which is ~~larger than the first display section and~~ displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

wherein the phone main body includes a first attaching position in which the operation key unit is attached onto a surface side of the phone main body, and a second attaching position in which the operation key unit is attached onto a rear surface side of the phone main body after being detached from the phone main body.

Claim 23. (Previously Presented) The cellular phone according to claim 22, wherein the operation key unit includes two horizontal cursor arrow direction keys; and

wherein the cellular phone further comprises:

a rear surface attachment detection section which detects that the operation key unit has been attached to the second attaching position;

a code change section of a code allocation function of the two horizontal cursor arrow direction keys of the operation key unit; and

a code allocation change section which changes the code allocation function based on a signal from the rear surface attachment detection section, when the operation key unit is attached to the second attaching position.

Claim 24 (Canceled).

Claim 25. (Currently Amended) A cellular phone comprising:

Art Unit: 2688

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which ~~is larger than the first display section and~~ displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information;

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

an attachment detection section which detects whether the operation key unit is attached to the phone main body; and

a control section which switches display driving of the first and second display sections based on a signal of from the attachment detection section.

Claim 26 (Canceled).

Claim 27. (Currently Amended) A cellular phone comprising:

Art Unit: 2688

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which is larger than the first display section and displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information;

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

a text processing section which transfers character data key-inputted in the operation key unit to the phone main body from the operation key unit and which subsequently converts the data to text; and

a sentence edition memory including both a temporary memory in which only a part of inputted data is recorded at a sentence input time and an all sentence memory in which all inputted sentences are recorded;

wherein the first display section displays the data of the temporary memory, and the second display section simultaneously displays the data of the all sentence memory.

Claim 28 (Canceled).

Claim 29. (Currently Amended) A cellular phone comprising:

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which is larger than the first display section and displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;

wherein the operation key unit comprises:

a capacitance input section which performs an instruction operation for the second display section on a rear surface side of the operation key unit with respect to an operation surface of the operation key unit; and

an XY code conversion section which converts a signal from the capacitance input section into a signal to be transferred; and

wherein the phone main body receives the signal to be transferred converted by the XY code conversion section via the transmission/reception section and comprises a control section to perform an instruction operation process of the second display section based on the received signal.

Claim 30. (Currently Amended) A cellular phone comprising:

a voice communication section which carries out voice communication and communication of call information;

an information communication section which carries out communication of information other than the call information, including an image to be displayed;

a first display section which is disposed in a phone main body to display the call information;

a second display section which is larger than the first display section and displays details of the information including the image to be displayed;

an operation key unit which is attachable/detachable with respect to the phone main body and which inputs at least one of character information and instruction information; and

a transmission/reception section which transmits/receives the at least one of character information and instruction information between the operation key unit and the phone main body;



wherein the operation key unit comprises:

a cross key section which performs an instruction operation of the second display section on a rear surface side of the operation key unit with respect to an operation surface of the operation key unit; and

an XY code conversion section which converts a signal outputted from the cross key section into a signal to be transferred; and

wherein the phone main body receives the signal to be transferred converted by the XY code conversion section via the transmission/reception section and comprises a control section to perform an instruction operation process of the second display section based on the received signal.

Claims 31 and 32 (Canceled).

End of Examiners Amendment.

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wesley L. Kim whose telephone number is 571-272-7867. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2688

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WLK

  
GEORGE ENG  
SUPERVISORY PATENT EXAMINER